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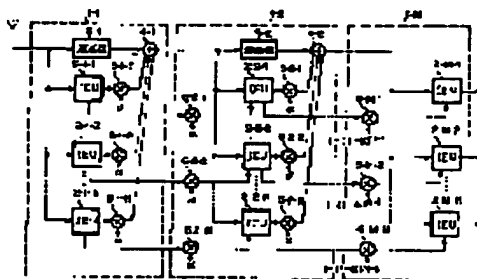
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(54) MULTIUSER RECEIVER AND CDMA COMMUNICATION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To make a device scale small, to improve the characteristic of an interference eliminating device of a parallel processing configuration and to improve it up to the equal level to a serial configuration by subtracting a signal which performs 2nd weighting of a diffusion signal about difference from a signal which delays an interference elimination residual signal on an $m-1$ stage only by a prescribed value to all users and outputting it to an $m+1$ stage.

SOLUTION: An interference estimating part (IEU) 2-m-n inputs an interference elimination residual signal obtained through interference elimination processing on an $m-1$ stage and a signal which performs 1st weighting of a symbol replica corresponding to the same user on the $m-1$ stage, produces a symbol replica on an m stage, outputs it to an $m+1$ stage and also outputs a diffusion signal about the difference with the symbol replica on the $m-1$ stage. A 2nd multiplier 5-m-n performs 2nd weighting of the output and a subtracter 4-m subtracts an interference elimination residual signal on the $m-1$ stage from a signal that is delayed as much as a processing time of the IEU, updates the interference elimination residual signal and outputs it to the $m+1$ stage.



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